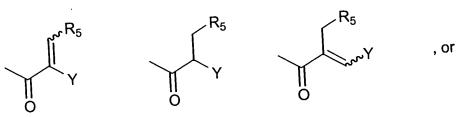
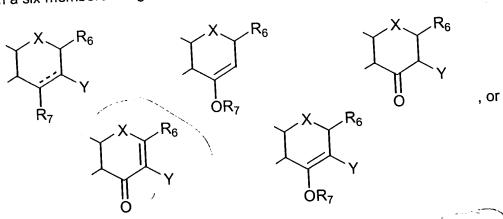
in which

- R_1 and R_2 are independently hydrogen, hydroxy, OR_9 , $OC(O)R_{10}$, $OS(O)R_{10}$, CHO, $C(\Theta)R_{10}$, COOH, CO_2R_{10} , $CONR_3R_4$, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,
- is hydrogen, and
- is R₁, A is hydrogen, hydroxy, NR₃R₄ or thio, and B is selected from



is R₁, and A and B taken together with the carbon atoms to which they are attached form a six-membered ring selected from



W, A and B taken together with the groups to which they are associated comprise

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$$R_8$$
 R_6
 R_1
 R_6
 R_7
 R_8
 R_8

$$R_1$$
 R_2
 R_3
 R_6 , or

and A taken together with the groups to which they are associated comprise

NR₁₀

$$R_{1}$$
 R_{1}
 R_{1}
 R_{1}
 R_{1}
 R_{2}
 R_{2}
 R_{2}
 R_{2}

and B is

$$\bigvee_{O}^{R_5}$$

$$\bigvee_{O}^{R_5}$$

$$R_5$$

wherein

- R₃ is hydrogen, alkyl, aryl, arylalkyl, an amino acid, C(O)R₁₁ where R₁₁ is hydrogen alkyl, aryl, arylalkyl or an amino acid, or CO₂R₁₂ where R₁₂ is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,
- R₄ is hydrogen, alkyl or aryl,
- or R₃ and R₄ taken together with the nitrogen to which they are attached comprise pyrrolidinyl or piperidinyl,
- R_5 is hydrogen, $C(O)R_{11}$ where R_{11} is as previously defined, or CO_2R_{12} where R_{12} is as previously defined,



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- R_6 is hydrogen, hydroxy, alkyl, aryl, amino, thio, NR_3R_4 , COR_{11} where R_{11} is as previously defined, CO_2R_{12} where R_{12} is as previously defined or $CONR_3R_4$,
- R_7 is hydrogen, C(O) R_{11} where R_{11} is as previously defined, alkyl, haloalkyl, aryl, arylalkyl or $Si(R_{13})_3$ where each R_{13} is independently hydrogen, alkyl or aryl,
- R_8 is hydrogen, hydroxy, alkoxy or alkyl,
- R_9 is alkyl, haloalkyl, aryl, arylalkyl, C(O) R_{11} where R_{11} is as previously defined, of $Si(R_{13})_3$ where R_{13} is as previously defined,
- R_{10} is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,

the symbol "<u>---</u>" represents either a single bond or a double bond,

X is O, NR $_4$ or S, and

Y is

wherein

R₁₄, R₁₅ and R₁₆ are independently hydrogen, hydroxy, OR₉, OC(O)R₁₀, OS(O)R₁₀, CHO, C(O)R₁₀, COOH, CO₂R₁₀, CONR₃R₄, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

with the proviso that

when

- R_1 is hydroxy, or OC(O) R_A where R_A is alkyl or an amino acid, and
- R_2 is hydrogen, hydroxy, OR_B where R_B is an amino acid or $C(O)R_A$ where R_A is as previously defined, and
- W is hydrogen, then
- Y is not phenyl, 4-hydroxyphenyl, 4-alkoxyphenyl or 4-alkylphenyl;

when

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R₁ and R₂ are hydroxy, and R₅ and W are hydrogen, then

Y is not phenyl; and

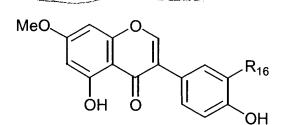
when

R₁ is hydroxy, and

 R_2 , R_6 and W are hydrogen, then

Y is not 4'-hydroxy-3'-methoxyphenyl; and

with the proviso that the following compounds are excluded:



$$R_{16} = H, OH$$

$$R_{14}$$
 = Me, CI

$$R_{14}$$
 = OH, OMe

$$R_2$$
 = H, OMe

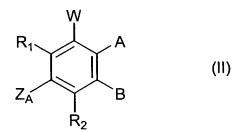
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PATENT Attorney Docket No. 07579.0016 CUSTOMER NUMBER 22,852

13. (New) An isoflavone compound or analogue thereof of the general formula II:



in which

- R₁ and R₂ are independently hydrogen, hydroxy, OR₉, OC(O)R₁₀, OS(O)R₁₀, CHO, C(O)R₁₀, COOH, CO₂R₁₀, CONR₃R₄, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,
- Z_A is OR_9 , $OC(O)R_{10}$, $OS(O)R_{10}$, CHO, $C(O)R_{10}$, COOH, CO_2R_{10} , $CONR_3R_4$, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo, and
- W is R₁, A is hydrogen, hydroxy, NR₃R₄ or thio, and B is selected from



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, or

 R_6

Ö

, or



$$\bigvee_{O}^{R_5}$$

$$R_5$$

is R₁, and A and B taken together with the carbon atoms to which they are attached form a six-membered ring selected from

$$X$$
 Y
 Y
 X
 Y
 Y
 Y
 Y
 Y
 Y
 Y

W, A and B taken together with the groups to which they are associated comprise

ÓR₇

$$R_{1}$$
 R_{2}
 R_{2}
 R_{3}
 R_{6}
 R_{1}
 R_{6}
 R_{2}
 R_{2}
 R_{2}
 R_{3}
 R_{4}
 R_{6}
 R_{1}
 R_{2}
 R_{2}
 R_{3}
 R_{4}
 R_{5}
 R_{6}
 R_{1}
 R_{2}
 R_{3}
 R_{4}
 R_{5}
 R_{5}
 R_{5}

and A taken together with the groups to which they are associated/comprise

-7-

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$$R_8$$
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{10}
 R_{10}

$$R_1$$
 R_1
 R_1
 R_2
 R_3
 R_4
 R_4
 R_5
 R_6

and B is

$$\bigvee_{O}^{R_5}$$

$$\bigvee_{O}^{R_5}$$

NR₁₀

wherein

- R_3 is hydrogen, alkyl, aryl, arylalkyl, an amino acid, $C(O)R_{11}$ where R_{11} is hydrogen alkyl, aryl, arylalkyl or an amino acid, or CO_2R_{12} where R_{12} is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,
- R₄ is hydrogen, alkyl or aryl,
- or R_3 and R_4 taken together with the nitrogen to which they are attached are pyrrolidinyl or piperidinyl,
- R_5 is hydrogen, $C(O)R_{11}$ where R_{11} is as previously defined, or CO_2R_{12} where R_{12} is as previously defined,
- R₆ is hydrogen, hydroxy, alkyl, aryl, amino, thio, NR₃R₄, COR₁₁ where R₁₁ is as previously defined, CO₂R₁₂ where R₁₂ is as previously defined or CONR₃R₄,
- R_7 is hydrogen, $C(O)R_{11}$ where R_{11} is as previously defined, alkyl, haloalkyl, aryl, arylalkyl or $Si(R_{13})_3$ where each R_{13} is independently hydrogen, alkyl or aryl,
- R₈ is hydrogen, hydroxy, alkoxy or alkyl,
- R_9 is alkyl, haloalkyl, aryl, arylalkyl, $C(O)R_{11}$ where R_{11} is as previously defined, or $Si(R_{13})_3$ where R_{13} is as previously defined,
- R_{10} is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,

Cont

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the symbol " $\underline{\hspace{-2.5pt}}$ " represents either a single bond or a double bond, X is O, NR₄ or S, and

Y is

wherein

 R_{14} , R_{15} and R_{16} are independently hydrogen, hydroxy, OR_9 , $OC(O)R_{10}$, $OS(O)R_{10}$, CHO, $C(O)R_{10}$, COOH, CO_2R_{10} , $CONR_3R_4$, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

with the proviso that the following compounds are excluded:

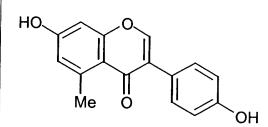
OH

 R_1 = OH, OMe R_{14} = OH, OMe

Cont

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14. (New) A compound of formula I as defined in claim 12 or of formula II as defined in claim 13 selected from the group consisting of:



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HO OH OH OH

15. (New) A method for the treatment, prophylaxis, amelioration, defence against, or prevention of menopausal syndrome including hot flushes, anxiety, depression, mood swings, night sweats, headaches, and urinary incontinence; osteoporosis; premenstrual syndrome, including fluid retention, cyclical mastalgia, and dysmenorrhoea; Reynaud's Syndrome; Reynaud's Phenomenon; Buerger's Disease; coronary artery spasm; migraine headaches; hypertension; benign prostatic hypertrophy; all forms of cancer including breast cancer; uterine cancer; ovarian cancer; testicular cancer; large bowel cancer; endometrial cancer; prostatic cancer; uterine cancer; atherosclerosis; Alzheimer's disease; inflammatory diseases including inflammatory bowel disease, ulcerative colitis, Crohn's disease; rheumatic diseases including rheumatoid arthritis; acne; baldness including male pattern baldness (alopecia hereditaria); psoriasis; diseases associated with oxidant stress including cancer; myocardial infarction; stroke; arthritis; sunlight induced skin damage or cataracts (the "therapeutic indications") which comprises administering to a subject a therapeutically effective amount of one or more compounds selected from formula

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and formula II as defined in claim 12 or 13, respectively, with the proviso that the compound of formula

is specifically disclaimed for the treatment or prophylaxis of atherosclerosis.

16. (New) An agent according to claim 12 or 13 which comprises one or more compounds selected from formulae I and II as defined in claims 12 or 13 either alone or in association with one or more carriers and/or excipients.

17. (New) A therapeutic composition which comprises one or more compounds selected from formula I and II as defined in claims 12 or 13 in association with one or more pharmaceutical carriers and/or excipients.

(New) A drink or food-stuff, which contains one or more compounds selected from formulae I and II as defined in claims 12 or 13.

19. (New) A microbial culture or a food-stuff containing one or more microbial strains which microorganisms produce one or more compounds selected from formulae I and II as defined in claims 12 or 13.

20. (New) One or more microorganisms which produce one or more compounds selected from formulae I and II as defined in claims 12 or 13.

Cont

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